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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/262,743 03/05/99 NATORI

M 02887.0136

EXAMINER

WM02/0320

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INGBERG, T

ART UNIT

PAPER NUMBER

2122

DATE MAILED:

03/20/01

**Please find below and/or attached an Office communication concerning this application or  
proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

09/262,743

Applicant(s)

NATORI ET AL.

Examiner

Chuck Kendall

Art Unit

2122

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 18) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

**DETAILED ACTION**

1. This action is in response to the application filed 3/5/99  
Claims 1-14 have been examined.

***Priority***

2. The priority date of July 24, 1998 is acknowledged

***Information Disclosure Statement***

3. The IDS submitted June 7, 1999 has been considered in part. Reference to the 1997 website, should include screen shots and printouts of articles to be considered from the timeperiod.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

4. Claim(1-14) rejected under 35 U.S.C. 102(a) as being anticipated by Lau, USPN 5,987,247.

**Claim 1:**

*Lau, (USPN 5,987,247)* anticipates, A method for constructing a business application system by using a framework described by an object-oriented language, the method comprising the steps of: (col.5 line 30-35)

preparing a system core class group, which has abstractly defined a basic structure -and behavior of a business application system, and an abstract class group, which inherits said system core class group and which includes a screen system class group, a report system class group and a business logic system class group; (col.9, line 5-55)

inheriting said screen system class group, said report system class group and said business logic system class group of said abstract class group to prepare a screen system functional group, a report system functional group and a business logic system functional group; (col.9, line 5-55)

inheriting said system core class group of said abstract class group to prepare a system core functional group; and (col.9, line 5-55)

integrating said screen system functional group, said report system functional group, said business logic system functional group and said system core functional group.

*(Lau USPN 5,987,247, fig 2-4, col. 1-9 line 1-65)*

**Claim 2:**

The method for constructing a business application system as set forth in claim 1, wherein said preparing step prepares, as said abstract class group, an abstract class group which further includes a common component group including a plurality of common components\_ commonly for use in said business application system, each of said common components having an interface with said abstract class group.

*(Lau USPN 5,987,247, fig 2-4, col. 1-6 line 1-65)*

**Claim 3:**

The method for constructing a business application system as set forth in claim 1, wherein said preparing step prepares, as said abstract class group, an abstract class group including a plurality of abstract classes so that each of said system core class group, said screen system class group, said report system class group and said business logic system class group has a hierarchical structure based on at least one inheritance relationship.

*(Lau USPN 5,987,247, fig 2-4, col. 1-6 line 1-65)*

Art Unit: 2122

**Claim 4:**

The method for constructing a business application system as set forth in claim 1, wherein said preparing step prepares, as said abstract class group, an abstract class group formed so that each of abstract classes included in each of said system core class group, said screen system class group, said report system class group and said business logic system class group includes an abstract method and a concrete method.  
(*Lau USPN 5,987,247, fig 2-4, col. 1-6 line 1-65*)

**Claim 5:**

The method for constructing a business application system as set forth in claim 1, wherein said integrating step compiles and links said screen system functional group, said report system functional group, said business logic system functional group and said system core functional group.

(*Lau USPN 5,987,247, fig 2-4, col. 1-10 line 1-65*)

**Claim 6:**

The method for constructing a business application system as set forth in claim 1, wherein said integrating step incorporates said screen system functional group, said report system functional group, said business logic system functional group and said system core functional group by means of a previously prepared inherent interface.

(*Lau USPN 5,987,247, fig 2-4, col. 1-10 line 1-65*)

**Claim 7:**

A computer-readable storage medium having stored a framework for a business application system, which has been described by an object oriented language, said framework including:

an abstract class group which has abstractly defined a structure and behavior of a business application system,

said abstract class group including a system core class group, which has abstractly defined a basic structure and behavior of said business application system, and a screen system class group, a report system class group and a business logic system class group, which inherit said system core class group.

(*Lau USPN 5,987,247, fig 2-4, col. 1-10 line 1-65*)

**Claim 8:**

The computer-readable storage medium having stored a framework for a business application system as set forth in claim 7, which further includes a common component group including a plurality of common components commonly for use in said business application system, each of said common components having an interface with said abstract class group.

(*Lau USPN 5,987,247, fig 2-4, col. 1-10 line 1-65*)

**Claim 9:**

The computer-readable storage medium having stored a framework for a business application system as set forth in claim 7, wherein each of said system core

Art Unit: 2122

class group, said screen system class group, said report system class group and said business logic system class group of said abstract class group includes a plurality of abstract classes having a hierarchical structure based on at least one inheritance relationship.

*(Lau USPN 5,987,247,fig 2-4,col.1-10 line 1-65)*

**Claim 10:**

The computer-readable storage medium having stored a framework for a business application system as set forth in claim 7, wherein each of abstract classes included in each of said system core class group, said screen system class group, said report system class group and said business logic system class group of said abstract class group includes an abstract method and a concrete method.

*(Lau USPN 5,987,247,fig 2-4,col.1-10 line 1-65)*

**Claim 11:**

A computer-readable storage medium having stored a framework for a business application system, which includes a plurality of class groups which are described by an object-oriented language and which are capable of manipulating data uniformly produced from each of said class groups, said framework including:

a system core class group having defined the manipulation of data;  
and

a plurality of subclasses inheriting said system core class group.

*(Lau USPN 5,987,247,fig 2-4,col.1-10 line 1-65)*

**Claim 12:**

The method for constructing a business application system as set forth in claim 11 wherein said system core class group has defined the calling of a common component commonly for use in said business application system.

*(Lau USPN 5,987,247,fig 2-4,col.1-12 line 1-65)*

**Claim 13:**

A computer-readable storage medium having stored a framework for a business application system, which includes a plurality of class groups which are described by an object-oriented language and which are capable of transmitting and receiving a request between functions produced from each of said class groups, said framework including: *(see claims)*

a system core class group having defined the transmission and receiving of a request between functions; and *(col.12,line 35-60)*

a plurality of subclasses inheriting said system core class group.

*(Lau USPN 5,987,247,fig 2-4,col.1-12 line 1-65)*

**Claim 14:**

*(Lau USPN 5,987,247,fig 2-4,col.1-12 line 1-65)*

The method for constructing a business application system as set forth in claim 13, wherein said system core class group has defined the calling of a common component commonly for use in said business application system.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

i. USPN 6,134,706 *Software Business Objects in a MULTI-LEVEL organizational structure*

ii. USPN 6,070,152 *Framework for Business Applications Providing Financial Integration.*

iii. USPN 6,106,569 *Method of Developing a software system Using object oriented technology*

**Correspondence Information**

Any response to this action should be mailed to: **Office of the Commissioner of Patents and Trademarks Washington, D.C. 20231**

Any response to this action may be sent via facsimile to either: **(703) 308-1396** (for formal communications marked **EXPEDITED PROCEDURE**), or **(703) 308-1396** (for formal communications marked **PROPOSED or DRAFT**).

Hand delivered responses may be brought to:

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